

of rainy days is reported from the Gulf coast, especially Florida and Texas, while the numbers reported from portions of Illinois, Iowa, Nebraska and Michigan, are but little lower. The minimum number of rainy days for the country east of the Rocky Mountains appears in the interior of New England and the basin of the Ohio. The number of cloudy days is decidedly greater on the middle and east Atlantic coasts, reaching a maximum in Maine. The region of minimum cloudiness, averaging five or six days during the month, extends from Ohio and Illinois southward to the Gulf States.

RELATIVE HUMIDITY.

The relative humidity averages about seventy-five per cent. throughout the Gulf and Atlantic States, and diminishes as we proceed inward toward the Ohio valley to sixty-two per cent. The averages for the Upper Lake region are seventy or seventy-five, and for the Lower Lakes about two per cent. less.

PREVAILING WINDS.

The prevailing winds exhibit in general a complete accord with the law according to which they should blow outward from the regions of greatest pressure. The latter region being off the middle Atlantic coast, we find northeast winds prevailing over the South Atlantic and Gulf States, but southerly winds over Maine, Vermont and New York. The low barometer in the Northwest has evidently determined the southerly courses of the winds from Texas to the Upper Lake region, and has had an equal influence on the northerly direction of the winds prevailing in western Dakota. The total movement of the atmosphere irrespective of the direction has been a minimum at Memphis, and less than usual, namely, from fifteen hundred to four thousand miles, over Kentucky and Tennessee and the greater portion of the States adjoining these on all sides. The greatest total movements, viz., from seven thousand to ninety-five hundred, are reported from the Texas and middle Atlantic coasts. The maximum winds have already been mentioned in connection with the respective storms.

NAVIGATION.

On chart No. III is given a table of the highest and lowest stages of the rivers during the month. The fluctuations have in general been very slight, the greatest range being that at Cairo, 10 feet. On the whole, the Missouri river, the Ohio and the lower Mississippi were lower during the latter part of the month than at the beginning. Destructive freshets have nowhere been reported, notwithstanding the heavy local rains reported in the lower Missouri valley and the Middle Atlantic coast.

TEMPERATURES OF WATER.

The observed water temperatures have been as follows:

	Surface maximum.	Bottom minimum.		Surface maximum.	Bottom minimum.
Lower Missouri river.....	72° to 79°	51° to 65°	From Cape Hatteras to		
Upper Mississippi river...	75 to 81	65 to 66	Cape Cod.....	72° to 81°	63° to 70°
The Red river.....	90	75	Cape Cod to Eastport...	53 to 75	49 to 66
The Ohio river.....	75 to 80	60 to 70	Lake Erie.....	74 to 81	60 to 67
The Gulf coast.....	88.5	75	Lake Michigan.....	67 to 75	50 to 63
South Atlantic coast.....	81 to 85	72 to 75	Lake Superior.....	63 to 66	43 to 46

In general it will be noticed that the ranges of temperature are greatest in the Upper Lakes and the Missouri river, and least on the coast of Maine.